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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,429	03/11/2004	Prashant Parikh	4428-4001US2	8127

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EXAMINER	
WU, YICUN	
ART UNIT	**PAPER NUMBER**
2165	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/799,429	PARIKH ET AL.	
	Examiner	Art Unit	
	Yicun Wu	2165	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *11 March 2004*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *21-26* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *21-26* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *11 March 2004* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Patent Examiner
Technology 2100

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *5/6/2004*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

III. DETAILED ACTION

1. Claims 21-26 are presented for examination.

Specification

2. The disclosure is objected to because of the following informalities: see below

Arrangement of the Specification

37 CFR 1.77(b)

(e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)

Because applicant's specification page 44-147 (Appendix A) is clearly computer code sequence. Therefor according to Title 37 CFR 1.96(c)),

As an appendix which will not be printed:

Any computer program listing may, and any computer program listing having over 300 lines (up to 72 characters per line) must, be submitted on a compact disc in compliance with 1.52(e).

The Examiner recommends that applicant submit a compact disc which is in compliance with 37 CFR 1.77(b), 37 CFR 1.52(e)(5), 37 CFR 1.96(b) and 37 CFR 1.96(c)

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 21-26 are rejected under 35 U.S.C. 102(e) as being anticipated over Marchisio (U. S. Patent No. 6,510,406).

As to claims 21, Marchisio discloses a method performed by a program executed by a processor to navigate among an arranged group of nodes (i.e. node. Col. 19, lines 16-50 and fig. 13), each of the nodes having an associated verbal description (i.e. concept identification. Col. 10 lines 49-60 and Col. 19, lines 16-50), the method comprising:

eliminating words (i.e. removed. Col. 19, lines 16-50 and fig. 13) stop words (i.e. stopwords. Col. 9, lines 29-35) and duplicates (i.e. generated. Col. 19, lines 16-50 and fig. 13) from the verbal descriptions to create a list of keywords (i.e. keyword. Col. 10 lines 49-60);

creating a list of thesaurus words (i.e. synonymy. Col. 10, lines 59-67);

creating a first matrix comprising a correlation of at least some thesaurus words with at least some keywords(i.e. term document matrix. Col. 11, lines 5-10);

creating a second matrix by calculating cosine values (i.e. cosine. Col. 12, lines 1-25) from a co-occurrence analysis of the entries in the first matrix (Col. 12, lines 1-25);

determining a synonymy among the at least some thesaurus words and the at least some keywords (Col. 10, lines 59-67); and

creating a thesaurus configured as an inverted index (i.e. inverted indices. Col. 9, lines 30-35) based upon the synonomy (Col. 10, lines 59-67).

As to claims 22, Marchisio discloses a method further comprising:

tracking frequency of use of the nodes (i.e. frequency. Col. 13, lines 1-7).

As to claims 23, Marchisio discloses a method further comprising:

ranking the nodes based upon a result of the tracking (i.e. ranking. Col. 11, lines 55-65).

As to claims 24, Marchisio discloses a method further comprising:

pruning a node from the group of nodes based upon a frequency of usage criterion (i.e. normalize the statistics of term frequency counts. Col. 10, lines 5-30).

As to claims 25, Marchisio discloses a method further comprising:

adding a synonym entry into the thesaurus based upon a result of an unknown word analysis (i.e. an additional row for each phrase. Col. 7, lines 45-50).

As to claims 26, Marchisio discloses a method wherein

the thesaurus further comprises at least some learned entries (i.e. learned. Col. 10, lines 59-65), the method further comprising:

deleting a learned entry based upon satisfaction of a frequency of use criterion (i.e. normalize the statistics of term frequency counts. Col. 10, lines 5-30).

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yicun Wu whose telephone number is 571-272-4087. The examiner can normally be reached on 8:00 am to 4:30 pm, Monday -Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 571-272-4146. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

Yicun Wu
Patent Examiner
Technology Center 2100

December 20, 2006